

## Rat Pyruvate Dehydrogenase Alpha (PDHa) ELISA Kit | PDHa elisa kit

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CATALOG #  
AAA183947

REACTIVITY  
Rat

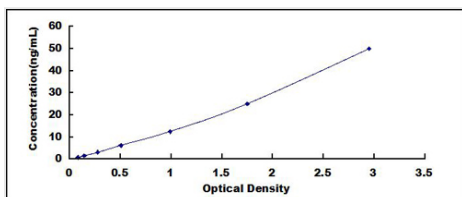
### PRODUCT SYNONYMS

Pyruvate Dehydrogenase Alpha (PDHa); Rat Pyruvate Dehydrogenase Alpha (PDHa) ELISA Kit; PDHCE1A; PHE1A; PHE1-A; PDHA1; PDH-A; Pyruvate Dehydrogenase(lipoamide)Alpha 1; Pyruvate Dehydrogenase E1 Component Subunit Alpha; Aomatic Form; Mitochondrial; PDHa elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Pyruvate Dehydrogenase Alpha (PDHa). No significant cross-reactivity or interference between Pyruvate Dehydrogenase Alpha (PDHa) and analogues was observed.                                                                                                                                                                                                                                                    |
| Sequence Length                                   | 340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type                                        | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                                           | Tissue Homogenates, Cell Lysates and Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Detection Range                                   | 0.78-50ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sensitivity                                       | < 0.29ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Application                                       | Enzyme-linked immunosorbent assay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Pyruvate Dehydrogenase Alpha (PDHa) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                                             |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Pyruvate Dehydrogenase Alpha (PDHa) were tested on 3 different plates, 8 replicates in each plate.                                                                                                                                                                                                                                                                                                                                               |
| CV(%) =                                           | SD/meanX100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-Assay                                       | CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Inter-Assay                                       | CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Related Product Information for PDHa elisa kit | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Pyruvate Dehydrogenase Alpha (PDHa). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Pyruvate Dehydrogenase Alpha (PDHa). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Pyruvate Dehydrogenase Alpha (PDHa), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Pyruvate Dehydrogenase Alpha (PDHa) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
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NCBI AND UNIPROT INFORMATION

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| NCBI GI #                 | 15604966                                          |
| NCBI GeneID               | 884877                                            |
| NCBI Accession #          | NP_219750.1                                       |
| NCBI GenBank Nucleotide # | NC_000117.1                                       |
| NCBI Official Full Name   | pyruvate dehydrogenase E1 component subunit alpha |
| NCBI Official Symbol      | pdhA                                              |
| NCBI Protein Information  | pyruvate dehydrogenase E1 component subunit alpha |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/pyruvate-dehydrogenase-alpha-pdha/183947>